



TECHNICAL E-RESOURCES

IN THIS ISSUE

- EDGE Thermostat
- Mingledorff's Class Schedule

EDGE THERMIDISTAT

Bryant Preferred series T6-PRH models and the Carrier TP-PRH Performance are two wire hookup to "EDGE" Thermidistat (Display Module) and a separate equipment module mounted at furnace or fan coil.

The Programmable "EDGE" can be setup to be Programmable or Non-programmable. Also comes in non-programmable only. These models are two wire hookup to "EDGE" thermostat (Display Module) and a separate equipment control module mounted at furnace or fan coil.

- Programming can be done for 7 days per week, 5/2 days per week, or 1 day.
- Two transformers compatible
- Set filter flag off to 7200 hours / 300 days
- Daylight savings time setup on programmable models
- T6-PRH Bryant, TP-PRH Carrier models have remote room sensing capable
 - local sensor
 - remote sensor
 - average temperature
- Outdoor Air displays when OAT sensor is used
- Cycles per hour 2-6 selectable
- Programmable fan option
- Easy to program and setup

Link to Mingledorff's Web page
www.mingledorffs.com

Link to HVACpartners Web page
www.hvacpartners.com

Link to Totaline Newsletter
www.totaline.com/newsletter

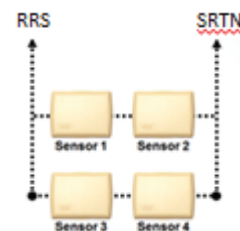
Link to Carrier Home Web page
www.carrier.com

Link to Bryant Home Web page
www.bryant.com

Link to Payne Home Page
www.payne.com



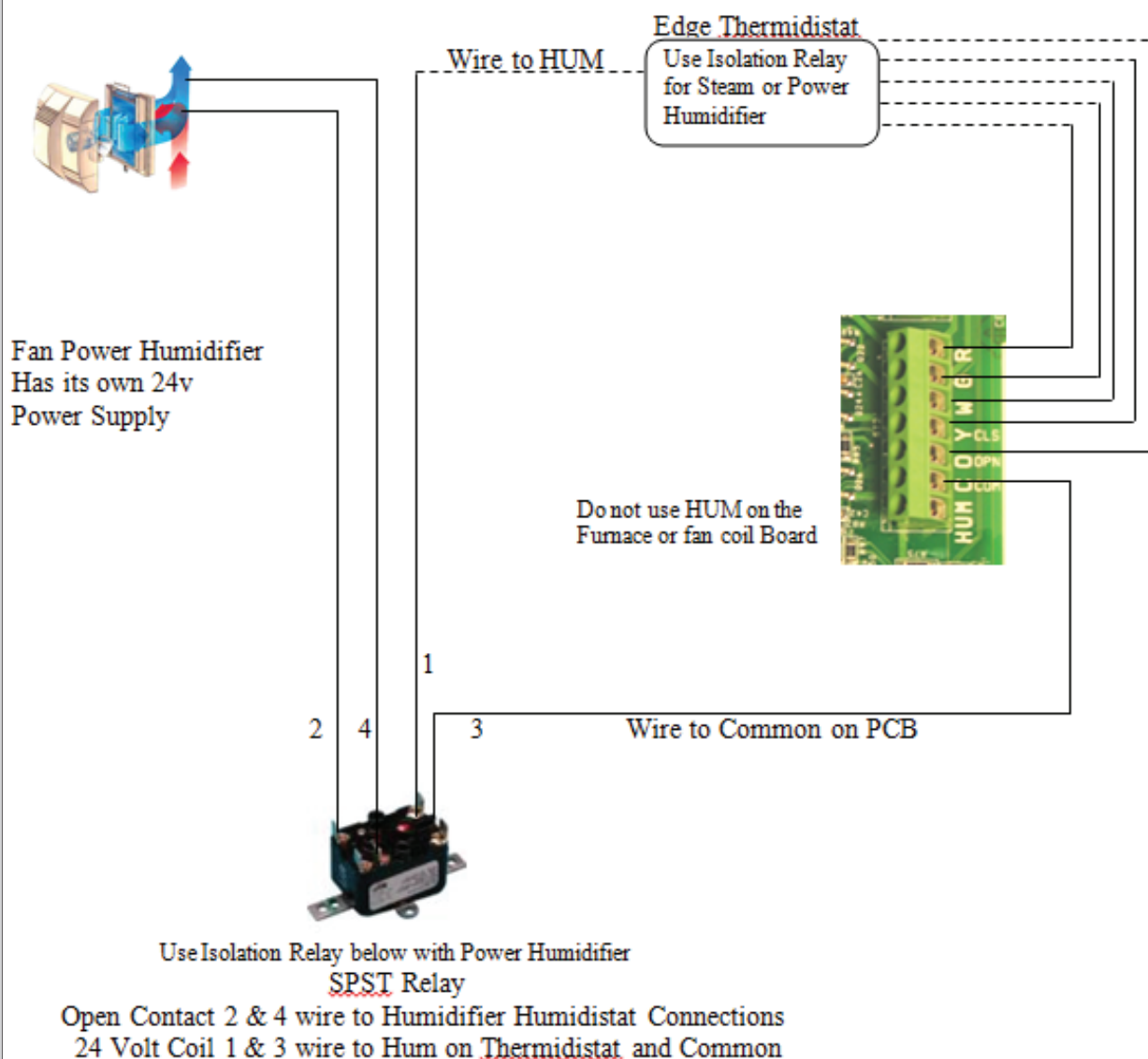
RRS



Room Averaging
with RRS's

Edge Thermostat – Wiring for Fan Power Humidifier

Fan Power Humidifier has its own 24 Volt Transformer therefore Isolation Relay is required.



Carrier, Bryant, Aprilaire Power Humidifier has their own 24 volt transformer, be sure to include an isolation relay that has a 24 volt coil to separate the furnace / fan coil 24 volt from the Power humidifier 24 volt supply.

Relay Part # P283-0290 SPST or P283-0293 SPDT

The above wiring diagram will show the service tech how to wire in an isolation relay.



TECHNICAL E-RESOURCES

THERMIDISTAT CONTROL CONFIGURATION RECORD

Date _____

Owner/Operator _____ Thermidistat Model No. _____

A) Hardware Configuration

- a. AC — 1- stage air conditioner with furnace or fan coil
- b. HP — 1- stage heat pump with fan coil
- c. A2 — 2- stage air conditioner with furnace or fan coil
- d. H2 — 2- stage heat pump with fan coil
- e. hh — Hybrid Heat system with 1- stage heat pump
- f. h2 — Hybrid Heat system with 2- stage heat pump
- g. H — heating only system
- h. C — cooling only system

B) Configuration Options

- Option 01 _____ Equipment Type
- Option 02 _____ Clean Filter Timer Adjustment (Off or 1-9: factory default = 2)
- Option 03* _____ Fahrenheit/Centigrade Selection (F or C: factory default = F)
- Option 04 _____ Fan (G) on with W/W1 Selection (Default OFF)
- Option 05 _____ Room Air Temperature Sensing (programmable models only)
- Option 06 _____ Cooling Lockout Below 55_F/13_C Selection (only available if outdoor air sensor is present)
(Off or On: factory default = Off)
- Option 07 _____ Zoning
- Option 08 _____ Auxiliary Heat Lockout Temperature Setting (only available when heat pump is used and when outdoor air temperature sensor is present) – (default OFF)
- Option 09 _____ Heat Pump Lockout Temperature Balance Point
(only available when outdoor air temperature sensor is present)
(Furnace Hybrid Heat only) - (Default Off)
- Option 10 _____ Reversing Valve



TECHNICAL E-RESOURCES

THERMIDISTAT CONTROL CONFIGURATION RECORD

Date _____

Owner/Operator _____ Thermidistat Model No. _____

B) Configuration Options (continue)

- Option 11 _____ Adjustable Setpoint Deadband (not available on heat only and cool only systems)
- Option 12 _____ Smart Recovery (programmable models only) – OFF (default 90 minutes)
- Option 13 _____ Room Temperature Offset Adjustment
- Option 14 _____ Humidity Offset Adjustment
- Option 15 _____ Enable Auto Mode
- Option 16 _____ Cycles Per Hour -
- Option 17 _____ Time Between Stages
- Option 18* _____ Backlight Configuration – selection is 1-5 (Default 3)
- Option 19 _____ Dry Contact
- Option 20 _____ Outdoor Air Temperature Offset Adjustment
- Option 21* _____ Keypad Lockout
- Option 22 _____ High Cool Latch Temperature
- Option 23 _____ High Heat Latch Temperature
- Option 24* _____ Programmable/Non-Programmable (programmable models only) P or nP
- Option 25* _____ Number of Programmable Periods per Day (programmable models only) - 2 or 4 Periods
- Option 26 _____ Minimum Cooling Setpoint
- Option 27 _____ Maximum heating Setpoint
- Option 28 _____ UV Light Reminder
- Option 29 _____ Humidifier Pad Reminder
- Option 30* _____ Programmable Fan (programmable models only)
- Option 31* _____ Daylight Savings Time Configuration (programmable models only)
- Option 32 _____ Furnace Heat Staging
- Option 33 _____ Single or Two-Piece Installation – Important change 1P or 2P (default 2P)
- Option 34 _____ Hybrid Heat Furnace Latch – ON furnace stays on during and after defrost (on)



TECHNICAL E-RESOURCES

THERMIDISTAT CONTROL CONFIGURATION RECORD

Date _____

Owner/Operator _____ Thermidistat Model No. _____

See Installation Instructions for below options

Option 40 _____ Fan Humidify

Option 41 _____ Variable Speed Blower – for Standard Dehumidification with 2 stage compressor select YES for VS Motor

Option 42 _____ Variable Speed Super Dehumidification Select YES, if duct sweating then SELECT NO

Option 43 _____ Intelligent Heat Staging – Electric Heat Strips for single speed

Option 44 _____ Super Comfort Heat – Heat Pump reduce indoor fan speed with furnace or fan coil

Option 99 _____ Reset to Factory Defaults





TECHNICAL E-RESOURCES

THERMIDISTAT CONTROL CONFIGURATION RECORD

Date _____

C) Schedule

	WAKE TIME	DAY HEAT	EVE COOL	SLEEP TIME	HEAT	COOL	TIME	HEAT	COOL	TIME	HEAT	COOL
Mon	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Tue	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Wed	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Thu	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Fri	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Sat	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Sun	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

D) Humidity Settings

Heat Mode Cool Mode

Selection	Setpoint %	Display	Selection	Setpoint %	Display
Normal Humidify	_____	(hu)	Normal Dehumidify	_____	(d hu)
Fan Humidify	_____	(hu, Fan)	Cool to Dehumidify	_____	(d hu, COOL)
Auto Humidify	_____	(hu, AUTO)	Dehumidify Off	no setpoint	(d hu, OF)
Auto and Fan Humidify	_____	(hu, AUTO, Fan)			
Humidify Off	no setpoint	(hu, OF)			

E) Vacation Humidity Settings

Heat Mode Cool Mode

Selection	Setpoint %	Display	Selection	Setpoint %	Display
Normal Humidify	_____	(hu, OUT)	Normal Dehumidify	_____	(d hu, OUT)
Auto Humidify	_____	(hu, OUT, AUTO)	Cool to Dehumidify	_____	(d hu, OUT, COOL)
Auto and Fan Humidify	_____	(hu, OUT, AUTO, Fan)	Dehumidify Off	no setpoint	(d hu, OUT, OF)
Humidify Off	no setpoint	(hu, OUT, OF)			



TECHNICAL E-RESOURCES



BASIC HEAT PUMP OPERATION AND ELECTRICAL TROUBLESHOOTING

ONE FULL DAY

(8:00 a.m. - 4:30 p.m.) \$175 each

Course qualifies for (8) C.E.U. credit hours. For Georgia, Alabama & N.A.T.E.

**Student must provide NATE ID number and
photo ID to receive NATE CEU credits**

MAY 22, 2013
Norcross Training Room



CLASS INCLUDES:

Power point presentation & discussion of basic heat pump refrigeration circuit, electrical ladder diagrams, control circuit operation, charging with superheat and subcooling method, long line applications, low ambient operation, basic air flow measurements, burnout procedures, system dehydration procedure and proper brazing procedure with nitrogen purge. Students will custom wire and troubleshoot an actual heat-pump demonstrator board.

FOR REGISTRATION FORM, OR INFORMATION, PLEASE CONTACT:

June Norman in Norcross, Ga.

Ph: 770-239-2134 Fax: 770-239-2137 jnorman@mingledorffs.com

Donna Hutchins in Savannah, Ga.

Ph: 912-236-8122 Fax: 912-232-1924 dhutchins@mingledorffs.com

Debbie Lanier in Macon, Ga.

Ph: 478-477-3193 Fax: 478-474-3987 dlanier@mingledorffs.com



TECHNICAL E-RESOURCES

2013 *Spring* SERVICE *Classes* UPDATE

Call your Store Manager or T.M.L. to reserve a DINNER spot. Current Upgrades On Equipment, Controls And Service Related Issues.

QUALIFIES FOR GEORGIA AND ALABAMA WARM AIR LICENSE C.E.U. CREDIT HOURS [4]

To Receive NATE RECERTIFICATION CREDIT HOURS & CERTIFICATE, you must provide your NATE I.D. number & a photo I.D. There is a \$25.00 Processing Fee.



APRIL 22, 2013

ANNISTON, AL (4:00pm - 8:00pm)

APRIL 23, 2013

BIRMINGHAM, AL 4:00pm - 8:00pm)

APRIL 24, 2013

MUSCLE SHOALS, AL (4:00pm - 8:00pm)

APRIL 25, 2013

ATHENS, GA (5:00pm - 9:00pm)
HUNTSVILLE, AL (4:00pm - 8:00pm)